

# **E1613-99 Standard Test Method for Determination of Lead by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES), Flame Atomic Absorption Spectrometry (FAAS), or Graphite Furnace Atomic Absorption Spectrometry (GFAAS) Techniques**

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## **1. Scope**

1.1 This test method is intended for use with digested samples that were collected originally during the abatement of lead hazards from buildings and related structures.

1.2 This test method covers the lead analysis of sample digestates (for example, digested paint, soil, dust, and airborne particulate) using inductively coupled plasma atomic emission spectrometry (ICP-AES), flame atomic absorption spectrometry (FAAS), and graphite furnace atomic absorption spectrometry (GFAAS) techniques.

1.3 No detailed operating instructions can be provided because of differences among various makes and models of satisfactory instruments. Instead, the analyst should follow the instructions provided by the manufacturer of the particular instrument.

1.4 This test method contains directions for sample analysis as well as quality assurance (QA) and quality control (QC) and may be used for purposes of laboratory accreditation and certification.

1.5 The use of analytical instrumentation other than ICP-AES, FAAS, and GFAAS is not within the scope of this test method.

1.6 The values stated in SI units are to be regarded as the standard.

1.7 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

**Adopted by:**

**Developed by ASTM Subcommittee:** [E06.23](#)

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